

Virginia Division of Consolidated Laboratory Services- Richmond, VA

Metals by Extraction/Air-Acetylene Flame Method SM 18 <sup>th</sup> ED 3111 C					
Facility Name: _____ VELAP ID: _____					
Assessor Name: _____ Analyst Name: _____ Inspection Date: _____					
Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
Records Examined: SOP Number/ Revision/ Date _____ Analyst: _____					
Sample ID: _____ Date of Sample Preparation: _____ Date of Analysis: _____					
Is instrument set up similar to SM 3111 B using water saturated with MIBK	3111C 4.a				
Is 100 mL of standards and blank adjusted to pH per method table?	3111C 4.b				
Are standards and blank added to 200 mL volumetric flask and is 1mL of Ammonium pyrrolidine dithiocarbamate solution and 10 mL of MIBK added and manually shaken for 30 seconds?	3111C 4.b				
Is water added to standards and blanks so organic phase is in the neck of the flask?	3111C 4.b				
Is blank used to zero the instrument?	3111C 4.b				
Are samples prepared as per standards?	3111C 4.c				
If measuring Cr, is above process reported as Cr VI?	3111C 4.c				
If determining total Cr, is the sample boiled with K <sub>2</sub> MnO <sub>4</sub> followed by hydroxylamine hydrochloride solution until loss of pink color?	3111C 4.c				
If emulsion forms during phase separations, is Na <sub>2</sub> SO <sub>4</sub> added?	3111C 4.c				
Notes/ Comments:					